

4G-alfa-D-glucopyranosyl rutin, and its preparation and uses. Patent Number: EP0420376 Publication date: 1991-04-03 SUZUKI YUKIO (JP); SUZUKI KEI (JP); YONEYAMA MASARU (JP); MIYAKE Inventor(s): TOSHIO (JP) HAYASHIBARA BIOCHEM LAB (JP) Applicant(s):: Application Number: EP19900302448 19900307 Priority Number(s): JP19890253269 19890928 IPC Classification: A23L2/18; A23L3/34; A61K7/00; A61K31/70; C07H17/07; C12P19/18 EC Classification: C07H17/07 Equivalents: CA2011617, DE69025839D, DE69025839T, D JP3115292, KR156539. □ US5026833 **Abstract**

A novel glycoside, 4-alpha-D-glucopyranosyl rutin, is formed by a saccharide-transferring enzyme and glucoamylase in a solution which contains rutin together with glucoamylase. The 4-alpha-D-glucopyranosyl rutin formed in such a solution is purified with a synthetic macroreticular resin, and crystallization in an organic solvent yields a complex crystal with the organic solvent. 4-alpha-D-glucopyranosyl rutin exhibits the same molecular absorption coefficient as intact rutin has, and is readily water-soluble, substantially tasteless and odorless, and readily hydrolyzable in vivo to exhibit physiological activities inherent to rutin. These render 4-alpha-D-glucopyranosyl rutin very useful as a highly-safe, natural yellow coloring agent, antioxidant, stabilizer, quality-improving agent, preventive, remedy, uv-absorbent and deterioration-preventing agent in foods, beverages, tobaccos, cigarets, feeds, pet foods, pharmaceuticals, cosmetics and plastics.

Data supplied from the esp@cenet database - I2